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Appl. no. 10/579,109
Atty. ref. VM001cOnUSb

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims

1 (currently amended). ~~Non-toxic~~ A non-acidic anti-freezing and anti-corrosion ~~water~~ solution comprising polyvalent alcohol such as glycerol from 38% to 88% by weight glycerol, water and additives as inhibitors which is effective at temperatures from -65°C to +110°C the following corrosion inhibiting additives: triethanolamine, an azole, one or more borates, at least one nitrate, at least one nitrite, at least one sulfate, at least one sulfite, at least one chromate, at least one benzoate, a cyanamide, and at least one polycarboxylate.

2 (currently amended). ~~Non-toxic~~ The non-acidic anti-freezing and anti-corrosion ~~water~~ solution according to claim 1, for useful at temperatures up to -25°C, which is comprised of water solution of additives plus glycerol, where water solution of additives comprises 97.40% of distilled water, comprising 0.60% of triethanolamine, 0.60% of polycarboxylate, 0.50% of benzotriazole, 0.20% of sodium tetraborate; 0.20% of sodium nitrate, 0.15% of sodium nitrite, 0.10% of sodium sulphide sulfite; 0.13% of potassium sulphide sulfate, 0.10% of Sodium sodium chromate, 0.10% of Sodium sodium benzoate, 0.03% of Sodium hydroxide, 0.20% of Sodium sodium metaborate, and 0.20% of calcium cyanamide, 0.005% of silicate oil, and where said glycerol makes constituting 38% of final non-toxic anti-freezing and anti-corrosion water said solution, all of said percentages being by weight.

3 (currently amended). ~~Non-toxic~~ The non-acidic anti-freezing and anti-corrosion ~~water~~ solution according to claim 1, for useful at temperatures up to -35°C, which is comprised of water solution of additives plus glycerol, where water solution of additives comprises 92.0% of distilled water, comprising 1.00% of triethanolamine, 1.00% of polycarboxylate, 1.50% of benzotriazole, 0.40% of sodium tetraborate, 0.30% of sodium nitrate, 0.25% of sodium nitrite, 0.25% of sodium sulphide sulfite, 0.90% of potassium sulphide sulfate, 0.20% of Sodium sodium chromate, 0.20% of Sodium sodium benzoate, 0.05% of Sodium hydroxide, 0.30% of Sodium sodium metaborate, and 0.35% of calcium cyanamide, 0.005% of silicate oil, and where said glycerol makes constituting 48% of final non-toxic anti-freezing and anti-corrosion water said solution, all of said percentages being by weight.

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4 (currently amended). Non-toxic The non-acidic anti-freezing and anti-corrosion water solution according to claim 1, for useful at temperatures up to -55°C, which is comprised of water solution of additives plus glycerol, where water solution of additives comprises 82.0% of distilled water, comprising 3.10% of triethanolamine, 2.60% of polycarboxylate, 3.20% of benzotriazole, 0.60% of sodium tetraborate, 0.40% of sodium nitrate; 0.35% of sodium nitrite, 1.10% of sodium sulphide sulfite; 2.20% of potassium sulphide sulfate; 0.65% of Sodium sodium chromate, 0.35% of Sodium sodium benzoate, 0.08% of Sodium hydroxide, 0.40% of Sodium sodium metaborate, and 0.45% of calcium cyanamide, 0.005% of silicate oil, and where said glycerol makes constituting 60% of final non-toxic anti-freezing and anti-corrosion water said solution, all of said percentages being by weight.

5 (currently amended). Non-toxic The non-acidic anti-freezing and anti-corrosion water solution according to claim 1, for useful at temperatures up to -65°C, which is comprised of water solution of additives plus glycerol, where water solution of additives comprises 78.00% of distilled water, comprising 3.60% of triethanolamine, 3.40% of polycarboxylate, 4.80% of benzotriazole, 0.80% of sodium tetraborate, 0.45% of sodium nitrate, 0.45% of sodium nitrite, 1.40% of sodium sulphide sulfite, 2.90% of potassium sulphide sulfate, 1.00% of Sodium sodium chromate 0.45% of Sodium sodium benzoate, 0.10% of Sodium hydroxide, 0.80% of Sodium sodium metaborate, and 0.90% of calcium cyanamide, 0.005% of silicate oil, and where said glycerol makes constituting 88% of final non-toxic anti-freezing and anti-corrosion water said solution, all of said percentages being by weight.

6 (canceled).

7 (currently amended). Regenerator for wasted antifreeze, which comprises 82.95% of glycerol 10.00% of distilled water, The non-acidic anti-freezing and anti-corrosion solution of claim 16 comprising 1.00% of polymark polycarboxylate, 1.00% of benzotriazole, 0.80% of triethanolamine, 0.20% of sodium metasilicate, 0.30% of potassium dichromate, 0.30% of sodium tetraborate (borax), 0.35% of sodium nitrate, 0.20% of sodium nitrite, 0.30% of sodium sulphide sulfite, 0.25% of potassium sulphide sulfate, 0.20% of sodium tripolyphosphate, 0.20% of sodium chromate, 0.30% of sodium benzoate, 0.03% of sodium hydroxide, 0.30% of benzosulphamide benzolsulfamide, and 0.45% of calcium cyanamide, and 0.005% of silicate (silicate oil) said glycerol constituting about 83% of said solution, all of said percentages being by weight.

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8 (currently amended). ~~Regenerator for wasted antifreeze, which comprises 75.65% of glycerol 10.00% of distilled water, The non-acidic anti-freezing and anti-corrosion solution of claim 16 comprising 1.30% of polymark polycarboxylate 2.20% of benzotriazole, 1.10% of triethanolamine, 0.40% of sodium metasilicate, 0.70% of potassium dichromate, 0.45% of sodium tetraborate (borax), 0.40% of sodium nitrate, 0.45% of sodium nitrite, 0.90% of sodium sulphide sulfite, 0.40% of potassium sulphide sulfate, 0.60% of sodium tripolyphosphate, 0.45% of sodium chromate, 0.85% of sodium benzoate, 0.05% of sodium hydroxide, 0.45% of benzosulphamide benzolsulfamide, and 1.10% of calcium cyanamide, and 0.005% of silicate (silicate oil) said glycerol constituting about 76% of said solution, all of said percentages being by weight.~~

9 (currently amended). ~~Regenerator for wasted antifreeze, which comprises 63.55% of glycerol 10.00% of distilled water, The non-acidic anti-freezing and anti-corrosion solution of claim 16 comprising 1.60% of polymark polycarboxylate, 4.20% of benzotriazole 1.60% of triethanolamine, 0.90% of sodium metasilicate, 1.10% of potassium dichromate, 0.90% of sodium tetraborate (borax), 0.70% of sodium nitrate, 0.60% of sodium nitrite, 2.20% of sodium sulphide sulfite, 1.20% of potassium sulphide sulfate, 0.75% of sodium tripolyphosphate, 1.20% of sodium chromate, 1.20% of sodium benzoate, 0.08% of sodium hydroxide, 1.00% of benzosulphamide benzolsulfamide, and 1.20% of calcium cyanamide, and 0.005% of silicate (silicate oil) said glycerol constituting about 64% of said solution, all of said percentages being by weight.~~

10 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 1 further comprising an alkali metal hydroxide.

11 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 2 further comprising 0.03% by weight sodium hydroxide.

12 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 3 further comprising 0.05% by weight sodium hydroxide.

13 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 4 further comprising 0.08% by weight sodium hydroxide.

14 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 5 further comprising 0.1% by weight sodium hydroxide.

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15 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 1 further comprising a silicate oil.

16 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 1 further comprising the following additional corrosion inhibiting additives: sodium metasilicate, benzosulfamide, a dichromate, and a tripolyphosphate.

17 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 16 further comprising a silicate oil.

18 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 16 further comprising an alkali metal hydroxide.

19 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 7 further comprising 0.03% by weight sodium hydroxide.

20 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 8 further comprising 0.05% by weight sodium hydroxide.

21 (new). The non-acidic anti-freezing and anti-corrosion solution of claim 9 further comprising 0.08% by weight sodium hydroxide.